ELSEVIER

Agricultural Water Management 77 (2005) vii–viii

Agricultural water management

www.elsevier.com/locate/agwat

Contents

Special Issue on Land and Water Use: Environmental Management Tools and Practices

Preface
J.M. Tarjuelo, F.M. de Santa Olalla (Albacete, Spain) and L.S. Pereira (Lisboa, Portugal) 1

Multi-scale modeling for water resources planning and management in rural basins
F.B. Victoria (Santa Catarina, Brazil), J.S.V. Filho (Rio Grande do Sul, Brazil), L.S. Pereira, J.L. Teixeira (Lisbon, Portugal) and A.E. Lanna (Porto Alegre, Brazil) ... 4

Integrated water resources management of the Hydrogeological Unit "Eastern Mancha" using Bayesian Belief Networks
F.J. Martín de Santa Olalla, A. Domínguez, A. Artigao, C. Fabeiro and J.F. Ortega (Albacete, Spain) 21

Improving water management: The irrigation advisory service of Castilla-La Mancha (Spain)
J.F. Ortega, J.A. de Juan and J.M. Tarjuelo (Albacete, Spain) 37

Drought class transition analysis through Markov and Loglinear models, an approach to early warning
A.A. Paulo, E. Ferreira, C. Coelho and L.S. Pereira (Lisboa, Portugal) 59

Land and water use management in vine growing by using geographic information systems in Castilla-La Mancha, Spain
F.J.M. Riquelme and A.B. Ramos (Albacete, Spain) 82

Assessment of hydrosaline land degradation by using a simple approach of remote sensing indicators
N.M. Khan (Tokyo, Japan), V.V. Rastoskuev (St. Petersburg, Russia), Y. Sato and S. Shiozawa (Tokyo, Japan) 96

A Bayesian combination method of flood models: Principles and application results
M. Niggli and A. Musy (Lausanne, Switzerland) 110

Analysis of a unit hydrograph model based on watershed geomorphology represented as a cascade of reservoirs
J.J. López, F.N. Gimena, M. Goñi and U. Agirre (Pamplona, España) 128

Steps towards modeling nutrient export in coastal Californian streams with a Mediterranean climate
T.H. Robinson, A. Leydecker, A.A. Keller and J.M. Melack (Santa Barbara, CA, USA) 144

GISAREG—A GIS based irrigation scheduling simulation model to support improved water use
P.S. Fortes (Lisbon, Portugal), A.E. Platonov (Tashkent, Uzbekistan) and L.S. Pereira (Lisbon, Portugal) 159

Water management decisions on small farms under scarce canal water supply: A case study from NW India
N.K. Tyagi, A. Agrawal (Karnal, India), R. Sakthivadivel (Colombo, Sri Lanka) and S.K. Ambast (Karnal, India) 180
Farmers managed irrigation districts in Japan: Assessing how fairness may contribute to sustainability
Y. Tanaka and Y. Sato (Tokyo, Japan) 196
Field assessment of the water saving potential with furrow irrigation in Fergana, Aral Sea basin
M.G. Horst, S.S. Shamutalov (Tashkent, Uzbekistan), L.S. Pereira and J.M. Gonçalves (Lisbon, Portugal) 210
Effects of different management practices on soil conservation and soil water in a rainfed olive orchard
A.J. Hernández, C. Lacasta and J. Pastor (Madrid, Spain) 232
Hydraulic performance of drip irrigation subunits using WWTP effluents
J. Puig-Bargués, G. Arbat (Girona, Spain), J. Barragán (Lleida, Spain) and F. Ramírez de Cartagena (Girona, Spain) 249
Using RZWQM to search improved practices for irrigated maize in Fergana, Uzbekistan
G. Stulina (Tashkent, Uzbekistan), M.R. Cameira and L.S. Pereira (Lisbon, Portugal) 263
Impacts of different irrigation schedules on the water balance components of an onion crop in a semi-arid zone
A. Mermoud, T.D. Tamini (Lausanne, Switzerland) and H. Yacouba (Ouagadougou, Burkina Faso) 282
Comparison of changes in stem diameter and water potential values for detecting water stress in young almond trees
P.A. Nortes, A. Pérez-Pastor, G. Egea, W. Conejero and R. Domingo (Cartagena, Spain) 296
Effects of irrigation with saline waters, at different concentrations, on soil physical and chemical characteristics
R. Dell'Aquila and A. Tedeschi (Naples, Italy) 308
Transpiration and canopy conductance in young apricot (*Prunus armenica* L.) trees subjected to different PAR levels and water stress
V.L. Barradas (México and Murcia, Spain), E. Nicolás (Murcia, Spain), A. Torrecillas and J.J. Alarcón (Murcia, Spain) 323